WATER QUALITY MEMORANDUM

Utah Coal Regulatory Program

January 6, 2011

TO:	Internal File					
THRU:	Daron Haddock, Permit Supervisor James D. Smith, Environmental Scient	De A mobbin				
FROM:	James D. Smith, Environmental Scient	ist				
RE:	2010 Third Quarter Water Monitoring, C/015/0009, Task ID #3611 #364 86	PacifiCorp, Trail Mountain	Mine,			
The Trail Mountain Mine is currently idle. The monitoring plan is described in Appendix A of Volume 9 of the MRP.						
1. Were data submitted for all of the MRP required sites?						
In-mine		YES 🖂	NO 🗌			
The mine is sealed, so other than the Oliphant portal discharge (18-1-1 or T-18), which is monitored as a spring, there is no monitoring of underground or in-mine water.						
Springs		YES 🖂	NO 🗌			
The Oliphant portal discharge (18-1-1 or T-18) is monitored quarterly. The Permittee monitors springs 17-35-2, 17-35-1, 17-26-5, 17-25-1, 17-26-4, 17-22-1, 17-21-1, and 18-2-1 for operational parameters in July and October and for flow only in August and September.						
Streams		YES 🔀	NO 🗌			
The Permittee monitors SW-1, SW-2 and SW-3 in Cottonwood Canyon and 18-3-1 (T-19) in Straight Canyon monthly, for flow only during the first two months of the quarter and for operational parameters during the last month of the quarter.						
UPDES		YES 🖂	NO 🗌			
DMRs were submitted in electronic format (Adobe). There was no reported discharge from either UPDES point during the Third Quarter 2010. The mine was sealed in June 2001 and						

Page 2 C/015/0009 WQ10-3 Task ID #3611 January 6, 2011

	WATER QUALITY MEMO	January 6, 20			
there has been no reported discharge Cottonwood Creek) since May 2001	e at UPDES UT23728-002 (the mine-water .	discharge into			
Wells	YES 🖂	NO 🗌			
Since July 2004, the water level in TM-3 has been reported as head above the casing elevation, determined from pressure measured by a gauge on the sealed wellhead (see chart below). TM-1B is monitored for operational parameters during the last month of each quarter.					
2. Were all required parameters r	reported for each site?				
Springs	YES 🖂	NO 🗌			
Streams	YES 🖂	NO 🗌			
UPDES	YES 🖂	NO 🗌			
Wells	YES 🔀	NO 🗌			
3. Were any irregularities found i	n the data?				
Listed parameters were outsic not a parameter required by the MRF	de two standard deviations. An asterisk (*)) indicates this is			
Springs	YES 🖂	NO 🗌			
18-3-1 September: field elect	idity*, cation - anion balance. tric conductivity, D-Mg, D-K, bicarbonate anions*, cation - anion balance.	as CaCO3, total			
Streams	YES 🖂	NO 🗌			
SW-2 September: cation - an	ion balance.				
UPDES	YES	NO 🗵			
No discharge.					

TM-1B September: bicarbonate as CaCO3.

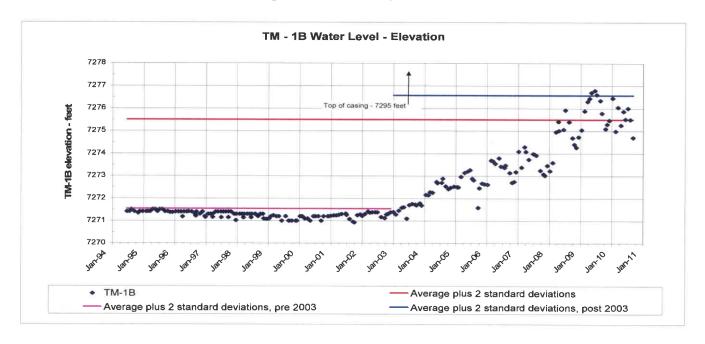
Wells

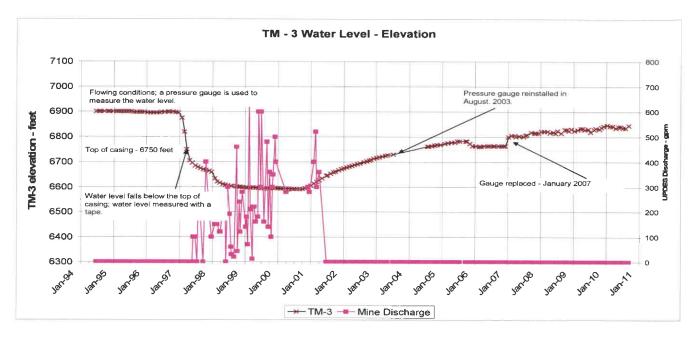
TM-1B: depth. The head in TM-1B has been slowly rising since early 2003. The cause is

YES ⊠ NO □

WATER QUALITY MEMO

not evident. Although highly variable from quarter to quarter, it may be declining (the elevation was highest in June 2009).





TM-3: water elevation peaked in June 2005, remained steady through October, dropped 18.5 ft in November and December 2005 and remained virtually unchanged during 2006. The pressure gauge was replaced in January 2007 and values jumped to approximately match the pre-2006 curve. During the first half of 2007,

Page 4 C/015/0009 WQ10-3 Task ID #3611 January 6, 2011

WATER QUALITY MEMO

the curve was relatively flat, but it resumed climbing during the third quarter and has continued on an upward trend.

YES

NO [

4. On what date does the MRP require a five-year resampling of baseline water data.

The next renewal will be on 02/21/15. Baseline analyses were performed in 2001 and 2006. Analyses for baseline parameters will be repeated every 5 years, i.e., the next baseline analyses will be in 2011.

5.	5. Based on your review, what further actions, if any, do you recommend?			
	There is no further action recommended at this time.			
6.	Does the Mine Operator need to submit more informa			
	monitoring requirements?	YES [NO 🗵	
7.	Follow-up from last quarter, if necessary.		NA 🛚	
8.	Did the Mine Operator respond adequately to queries	about missing or	irregular da	

There were no missing or irregular data in the Third Quarter 2010.

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